

**R.N. WILLEY & SONS  
EXCAVATING, INC.  
CUMBERLAND COUNTY  
CASCO, MAINE  
A-868-71-D-R**

**DEPARTMENTAL  
FINDINGS OF FACT AND ORDER  
AIR EMISSION LICENSE**

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

**I. REGISTRATION**

**A. Introduction**

R.N. Willey & Sons Inc. (RNW), located in Casco, Maine has applied to renew their Air emission License, permitting the operation of a portable crushed stone and gravel facility.

**B. Emission Equipment**

**Process Equipment:**

| <u>Designation</u> | <u>Powered</u> | <u>Process Rate<br/>(tons/hour)</u> | <u>Control Device</u> | <u>Date of<br/>Manufacture</u> |
|--------------------|----------------|-------------------------------------|-----------------------|--------------------------------|
| Primary            | diesel         | 75                                  | Spray Nozzles         | Pre 1983                       |
| Screen*            | electric       | -                                   | -                     | -                              |

\* The screen is considered insignificant activities pursuant to Appendix B of Chapter 115 and is noted for inventory purposes only.

**Diesel Units:**

| <u>Source ID</u>  | <u>Max. Capacity<br/>MMBtu/hr</u> | <u>Max. Firing Rate<br/>gal/hr</u> | <u>Power Output<br/>hp</u> |
|-------------------|-----------------------------------|------------------------------------|----------------------------|
| Diesel Drive #1   | 1.23                              | 8.98                               | 100                        |
| Diesel Generator* | 0.20                              | 1.50                               | 28                         |

\* The Diesel Generator is considered an insignificant activity pursuant to Chapter 115 and is noted for inventory purposes only.

C. Application Classification

The application for RNW does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (last amended December 24, 2005).

## II. BEST PRACTICAL TREATMENT

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in *Definitions Regulation*, 06-096 CMR 100 (last amended December 24, 2005). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Rock Crusher

The rock crusher is a portable unit with a rated capacity of 75 ton/hr. The rock crusher is therefore not subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants manufactured after August 31, 1983, with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for non-portable plants.

The regulated pollutant from the rock crusher is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crusher, RNW shall maintain water sprays on the rock crusher and operate as needed to control visible emissions. Visible emissions from the rock crusher shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

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**C. Diesel Drive #1**

Diesel Drive #1 is utilized to power the rock crusher. A BPT summary for Diesel Drive #1 is as follows:

1. The total fuel use for Diesel Drive #1 shall not exceed 10,000 gallons per calendar year of diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.
2. *Low Sulfur Fuel*, 06-096 CMR 106 (last amended July 4, 1999) regulates fuel sulfur content. However, the use of diesel fuel with a sulfur content not to exceed 0.05% is more stringent and shall be considered BPT.
3. A PM emission limit of 0.12 lb/MMBtu shall be considered BPT. The PM<sub>10</sub> limits are derived from the PM limits.
4. NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 10/96.
5. Visible emissions from Diesel Drive #1 shall not exceed 20% opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period.

**D. Stock Piles and Roadways**

Visible emissions from a fugitive emission source shall not exceed an opacity of 20%, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour.

**E. General Process Emissions**

Visible emissions from a general process (including conveyor belts) shall not exceed an opacity of 10% on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period.

**F. Facility Emissions and Fuel Use Caps**

RNW shall not exceed 10,000 gallons per calendar year of diesel fuel with a maximum sulfur content not to exceed 0.05% by weight. RNW shall be restricted to the following annual emissions, based on a calendar year:

**Total Allowable Annual Emissions for the Facility  
(used to calculate the annual license fee)**

| <b><u>Pollutant</u></b> | <b><u>Tons/Year</u></b> |
|-------------------------|-------------------------|
| PM                      | 0.08                    |
| PM <sub>10</sub>        | 0.08                    |
| SO <sub>2</sub>         | 0.04                    |
| NO <sub>x</sub>         | 3.02                    |
| CO                      | 0.65                    |
| VOC                     | 0.24                    |

### **III. AMBIENT AIR QUALITY ANALYSIS**

According to 06-096 CMR 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Based on the above total facility emissions, RNW is below the emissions level required for modeling and monitoring.

### **ORDER**

The Department hereby grants Air Emission License A-868-71-D-R, subject to the following conditions:

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

### **STANDARD CONDITIONS**

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 M.R.S.A. §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [06-096 CMR 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 CMR 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 CMR 115]

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- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353. [06-096 CMR 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 CMR 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 CMR 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 CMR 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [06-096 CMR 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [06-096 CMR 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
  - A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    2. pursuant to any other requirement of this license to perform stack testing.
  - B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
  - C. submit a written report to the Department within thirty (30) days from date of test completion.

[06-096 CMR 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:

- A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
- B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[06-096 CMR 115]

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [06-096 CMR 115]

- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 CMR 115]

- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [06-096 CMR 115]

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**SPECIFIC CONDITIONS**

**(16) Rock Crushers**

- A. RNW shall install and maintain spray nozzles for particulate control on the rock crusher and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. [06-096 CMR 115, 06-096 CMR 101, BPT]
- B. RNW shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location. [06-096 CMR 115, BPT]
- C. RNW shall maintain a log detailing and quantifying the hours of operation on a daily basis for the rock crusher. The operation log shall be kept on-site at the rock crushing location. [06-096 CMR 115, BPT]
- D. The crusher shall not be attached or clamped via cable, chain, turnbuckle, bolt, or other means (except electrical connections) to any anchor, slab, or structure (including bedrock) that must be removed prior to transportation. [06-096 CMR 115, BPT]

**(17) Diesel Drive #1**

- A. RNW shall not exceed the total use of 10,000 gallons per calendar year of diesel fuel, with a sulfur content not to exceed 0.05% by weight. Records from the supplier documenting the sulfur content and quantity received shall be kept for compliance purposes. [06-096 CMR 115, BPT]
- B. Emissions from the Diesel Drive #1 shall be limited to the following: [06-096 CMR 115, BPT]

| <b>Emission Unit</b> | <b>PM<br/>(lb/hr)</b> | <b>PM<sub>10</sub><br/>(lb/hr)</b> | <b>SO<sub>2</sub><br/>(lb/hr)</b> | <b>NO<sub>x</sub><br/>(lb/hr)</b> | <b>CO<br/>(lb/hr)</b> | <b>VOC<br/>(lb/hr)</b> |
|----------------------|-----------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------|
| Diesel Drive #1      | 0.15                  | 0.15                               | 0.06                              | 5.42                              | 1.17                  | 0.43                   |

- C. Visible emissions from the Diesel Drive #1 shall not exceed 20% opacity on a 6 minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3 hour period. [06-096 CMR 101]

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**(18) Stockpiles and Roadways**

Visible emissions from a fugitive emission source shall not exceed an opacity of 20%, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour. [06-096 CMR 101]

**(19) General Process Sources**

Visible emissions from any general process source shall (including conveyor belts) not exceed an opacity of 10% on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. [06-096 CMR 101, 06-096 CMR 115, BPT]

**(20) Equipment Relocation [06-096 CMR 115, BPT]**

A. RNW shall notify the Bureau of Air Quality, by a written notification at least 48 hours prior to relocation of any equipment carried on this license. Written notice may be sent by mail, facsimile (fax), or e-mail. Notification sent by mail shall be sent to the address below or to a Department Regional Office:

Attn: Relocation Notice  
Maine DEP  
Bureau of Air Quality  
17 State House Station  
Augusta, ME 04333-0017

Equipment relocation notification can also be done on-line with e-notice at [www.maine.gov/dep/air/compliance/forms/relocation](http://www.maine.gov/dep/air/compliance/forms/relocation).

The notification shall include the address of the equipment's new location, an identification of the equipment and the license number pertaining to the relocated equipment.

B. Written notification shall also be made to the municipality where the equipment will be relocated, except in the case of an unorganized territory where notification will be made to the respective county commissioners.

**(21) RNW shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [06-096 CMR 115, BPT]**



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- (22) RNW shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard [38 M.R.S.A. §605-C].

DONE AND DATED IN AUGUSTA, MAINE THIS                      DAY OF                      2008.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAVID P. LITTELL, COMMISSIONER

**The term of this license shall be five (5) years from the signature date above.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 3/6/2008

Date of application acceptance: 3/19/2008

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This Order prepared by Jonathan Voisine, Bureau of Air Quality.